REMARKS/ARGUMENTS

This case has been carefully reviewed and analyzed in view of the Office Action

dated 14 July 2006. Responsive to the Office Action, Claims 1 and 5 have been amended

to more clearly define the inventive concept. Claims 1-13 are pending in the subject

Patent Application.

In the Office Action, the Examiner rejected Claims 1, 4-5, 8-11 under 35 U.S.C. §

102(b) as being anticipated by Sandbach (U.S. #2003/0011576, hereinafter Sandbach).

The Examiner also rejected Claims 12-13 under 35 U.S.C. § 103(a) as being unpatentable

over Sandback in view of Merz (U.S. Patent # 5,565,657, hereinafter Merz). Lastly, the

Examiner rejected Claims 2-3 and 6-7 under 35 U.S.C. § 103(a) as being unpatentable

over Sandbach in view of Stefik (U.S. Patent # 5,724,064, hereinafter Stefik).

Before discussing the references relied upon by the Examiner, it is believed

beneficial to initially and briefly review the structure as more clearly defined by the

newly amended claims. The claimed electronic input device includes among its

combination of features: a film layer 10 made of a flexible material. A conducting layer

20, a covering layer 30, and a character display layer 40 are each respectively mounted

on the film layer. A connecting unit 60 and an IC control unit 50 are each mounted on

the conducting layer 20 and receive via the conducting layer, as input, a signal from a

human's touch. As is well known in the art, the human body may act as an antenna for

extremely low frequency (ELF) signals. In this invention, these ELF signals emanate

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from any nearby power-grid and propagate through the user's finger into the keyboard on

contact. On detection of an ELF signal in the range of fifty to sixty hertz, the keyboard

will register a keystroke. It is noted that none of the references cited operate in

accordance with this principle and necessarily do not include the combination of elements

as recited in the amended Claims permitting this principle of operation to actuate a

connected device.

In providing a thin electronic input device operating under this antenna principle, a

thin, flexible keyboard with a single conducting layer, being free of moving parts is now

possible. Among the benefits derived from the use of this principle are reductions across

the board in: thickness, weight, fragility, manufacturing complexity, and cost. This

reduction in complexity will further portability, operational life, and durability, while

reducing manufacturing and user costs. Still further, the lack of moving parts allows for

an almost perpetual operational life with improved reliability and accuracy.

The Examiner has rejected the originally filed Claims 1, 4-5, and 8-11 under 35

U.S.C. § 102(b) as being anticipated by Sandbach. The Sandbach reference is directed to

a data processing apparatus with replacement keyboard. The Sandbach device is merely

a conventional, mechanical keyboard albeit flexible. There are ten semi-flexible layers,

three of which are planar conducting layers (301, 302, and 307) sandwiched among seven

other layers of insulative material (303, 304, 305, 306, 308, 309, and 317). The device

has six conductive elements (301, 307, 302, 311, 313, and 314) for transmitting the

mechanical keypunches to an IC control unit. Mounted on the top layer are protruding

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mechanical sensor buttons 106 for each control / alpha numeric character. This Sandbach

device is operated through conventional mechanical closing of sensors 106 by

mechanical force applied through the user's fingers to the sensors.

However, Sandbach does not disclose, allude or suggest this novel approach of

using a human body as an antenna to propagate a signal which will trigger a keystroke.

The subject Patent Application as defined herein takes as input a human electrical wave,

as opposed to Sandbach which uses conventional mechanical force, to register

keystrokes.

Thus, the Sandbach reference does not provide for: "... a single conducting

layer for sensing a human electrical wave having a frequency between 50

and 60 hertz...." Sandbach also lacks "...said human electrical wave provides

electrical input to said electronic input device when contacted by a carrier of said human

electrical wave..." as defined by newly amended independent Claims 1 and 5.

In opposition, the Sandbach reference discloses a device which requires closing of

individual circuits through mechanical force to input keystrokes. The Sandbach device is

not configured, intended, or modifiable to accept input by a human electrical wave, as is

necessary for newly amended independent Claims 1 and 5.

Further, Sandbach does not disclose, allude or suggest the reduction in conductive

layers, let alone, the use of a singular conductive layer. The Sandbach device could not

possibly operate with a single conductive layer, as it inherently operates by contact of at

least two conductive layers to close a circuit.

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Thus, the Sandbach reference does not provide for: "... a single conducting

layer for sensing a human electrical wave having a frequency between 50

and 60 hertz..." as defined by newly amended independent Claims 1 and 5.

In opposition, the Sandbach reference discloses a device which does not provide

increased portability, operating life, or reduced cost through reduction in conducting

layers. Sandbach teaches a device using three conductive layers (301, 307, and 302). As

these are all mounted together, they require at least two insulative layers between them to

prevent short circuit, and two more layers on the top and bottom faces. In fact, Sandbach

is composed of ten (10) layers as seen in Figure 3. ([0035] line 3). The Sandbach device

is not configured for, nor intended for use with a singular conductive layer, as is

necessary for newly amended independent Claims 1 and 5.

Further still, Sandbach does not disclose, allude or suggest the lack of moving

parts. The Sandbach device, as it operates in a conventional fashion by contact of at least

two biased-apart conductive layers to close a circuit, requires a displacement of at least

one conductive element into contact with the other.

Thus, the Sandbach reference does not provide for: "... said conducting,

covering, and character layers being non-displaceably mounted..." as defined

by newly amended independent Claims 1 and 5.

In opposition, the Sandbach reference discloses a device which does not provide

increased portability, operating life, or reduced cost through elimination of moving parts.

Sandbach teaches a device using three conductive layers (301, 307, and 302) which must

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be physically displaced into one another with every keystroke. The Sandbach device is

not configured for, nor intended for use without moving parts, as is necessary for newly

amended independent Claims 1 and 5.

The Examiner has rejected Claims 12-13 under 35 U.S.C. § 103(a) as being

unpatentable over Sandbach in view of Merz. Merz is directed to a multidimensional

user interface input device. Merz does not suggest, allude, or provide for receiving as

input a human electric wave, a singular conducting layer, nor non-displaceable layers as

is necessary to newly amended independent Claims 1 and 5.

The Examiner has rejected Claims 2-3 and 6-7 under 35 U.S.C. § 103(a) as being

unpatentable over Sandbach in view of Stefik. Stefik is directed to a computer system

with an interactive display. Stefik does not suggest, allude, or provide for receiving as

input a human electric wave, a singular conducting layer, nor non-displaceable layers as

is necessary to newly amended independent Claims 1 and 5.

As Claims 2-3, and 6-13 all are ultimately dependent upon newly amended

independent Claims 1 and 5, the Claims are now believed to show patentablity for at least

the same reasons as presented above.

As none of the cited references taken alone, or in combination disclose, allude, or

suggest the unique combination of features recited by the pending Claims, it is not

believed that they can make obvious the subject Patent Application whether taken alone

or in combination. It is now believed that the subject Patent Application has been placed

in condition for allowance, and such action is respectfully requested.

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If there are any fees necessary in this filing, the Director of Patents and Trademarks is hereby authorized to charge deposit account # 18-2011 for such additional charges.

Respectfully submitted,

FOR: ROSENBERG KLEIN & LEE

/David I. Klein/

David I. Klein

Registration No. 33,253

Dated: 13 November 2006

3458 Ellicott Center Drive, Suite 101 Ellicott City, MD 21043 (410) 465-6678

Customer No. 04586

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/David I. Klein/ DAVID I. KLEIN 11/13/2006 Date